09/493,004

```
     FILE 'USPATFULL' ENTERED AT 15:15:07 ON 15 MAY 2000
L1          125 S DETECT### (P) (FAD### (A) CHANNEL#)
L2            1 S DETERMIN### (P) (QUANTIZ? CORRECTION COMMAND#) (P)
(RECEIVED
L3          256 S DECOD### (P) QUANTIZ? SIGNAL#
L4          164 S ESTIMAT### (5W) (RMS OR ROOT MEAN SQUARE)
L5         7011 S DEMODULAT### (P) RECEIVED SIGNAL#
L6         1448 S ANALYZ### (P) RECEIVED SIGNAL#
L7           55 S QUANTIZ### (P) DEMODULATED SIGNAL#
L8           15 S QUANTIZ### (W) PROCESSOR#
L9         1043 S VITERBI DECODER# OR (LOOK(W)UP(W)TABLE DECODER#)
L10           1 S DETERMIN### (P) (DESIRED RMS FADE VALUE)
L11         525 S 714/746/NCL OR 714/759/NCL OR 714/795/NCL
L12       16561 S (375/?/NCL) OR L11
L13           1 S L1 (P) L3
L14          12 S L9 AND L1
L15          30 S L3 AND (L4 OR L5 OR L6 OR L7 OR L8 OR L9)
L16          16 S L15 AND L12
L17           1 S L1 AND L16
              SAVE CHANNELFAD/L ALL

=> d l2 ibib ti


L2   ANSWER 1 OF 1  USPATFULL
ACCESSION NUMBER:        2000:41878  USPATFULL
TITLE:                   Method and device for quantizing the input to soft
                         decoders
INVENTOR(S):             Yellin, Daniel, Karmei Yosef, Israel
PATENT ASSIGNEE(S):      DSPC Israel Ltd., Givat Shmuel, Israel (non-U.S.
                         corporation)

                              NUMBER         DATE
                         ---------------- --------
PATENT INFORMATION:      US 6047035       20000404
APPLICATION INFO.:       US 1998-103683   19980615  (9)
DOCUMENT TYPE:           Utility
PRIMARY EXAMINER:        Chin, Stephen
ASSISTANT EXAMINER:      Maddox, Michael W.
LEGAL REPRESENTATIVE:    Darby & Darby
NUMBER OF CLAIMS:        18
EXEMPLARY CLAIM:         1
NUMBER OF DRAWINGS:      10 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT:              696
TI     Method and device for quantizing the input to soft decoders


=> d l10 ibib ti


L10  ANSWER 1 OF 1  USPATFULL
ACCESSION NUMBER:        2000:41878  USPATFULL
TITLE:                   Method and device for quantizing the input to soft
                         decoders
INVENTOR(S):             Yellin, Daniel, Karmei Yosef, Israel
PATENT ASSIGNEE(S):      DSPC Israel Ltd., Givat Shmuel, Israel (non-U.S.
                         corporation)

                              NUMBER         DATE
```

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 6047035 | 20000404 | |
| APPLICATION INFO.: | US 1998-103683 | 19980615 | (9) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Chin, Stephen
ASSISTANT EXAMINER: Maddox, Michael W.
LEGAL REPRESENTATIVE: Darby & Darby
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 696
TI Method and device for quantizing the input to soft decoders

=> d l13 ibib ti

L13 ANSWER 1 OF 1 USPATFULL
ACCESSION NUMBER: 2000:41878 USPATFULL
TITLE: Method and device for quantizing the input to soft decoders
INVENTOR(S): Yellin, Daniel, Karmei Yosef, Israel
PATENT ASSIGNEE(S): DSPC Israel Ltd., Givat Shmuel, Israel (non-U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 6047035 | 20000404 | |
| APPLICATION INFO.: | US 1998-103683 | 19980615 | (9) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Chin, Stephen
ASSISTANT EXAMINER: Maddox, Michael W.
LEGAL REPRESENTATIVE: Darby & Darby
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 696
TI Method and device for quantizing the input to soft decoders

=> d l14 ibib ti 1-12

L14 ANSWER 1 OF 12 USPATFULL
ACCESSION NUMBER: 2000:51527 USPATFULL
TITLE: Communication system for broadcasting to mobile users
INVENTOR(S): Stephens, Scott A., Manhattan Beach, CA, United States
Smigla, Terrence R., Manhattan Beach, CA, United States
Martin, Donald R., Redondo Beach, CA, United States
PATENT ASSIGNEE(S): TRW Docket No., Redondo Beach, CA, United States (U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 6055277 | 20000425 | |
| APPLICATION INFO.: | US 1997-864774 | 19970529 | (8) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Chin, Stephen
ASSISTANT EXAMINER: Maddox, Michael W.
LEGAL REPRESENTATIVE: Yatsko, Michael S.
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 1008

TI Communication system for broadcasting to mobile users

L14 ANSWER 2 OF 12 USPATFULL

| | |
|---|---|
| ACCESSION NUMBER: | 2000:41878 USPATFULL |
| TITLE: | Method and device for quantizing the input to soft decoders |
| INVENTOR(S): | Yellin, Daniel, Karmei Yosef, Israel |
| PATENT ASSIGNEE(S): | DSPC Israel Ltd., Givat Shmuel, Israel (non-U.S. corporation) |

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 6047035 | 20000404 |
| APPLICATION INFO.: | US 1998-103683 | 19980615 (9) |
| DOCUMENT TYPE: | Utility | |
| PRIMARY EXAMINER: | Chin, Stephen | |
| ASSISTANT EXAMINER: | Maddox, Michael W. | |
| LEGAL REPRESENTATIVE: | Darby & Darby | |
| NUMBER OF CLAIMS: | 18 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 10 Drawing Figure(s); 5 Drawing Page(s) | |
| LINE COUNT: | 696 | |

TI Method and device for quantizing the input to soft decoders

L14 ANSWER 3 OF 12 USPATFULL

| | |
|---|---|
| ACCESSION NUMBER: | 1998:43188 USPATFULL |
| TITLE: | Mobile terminal apparatus and method for a satellite communication system |
| INVENTOR(S): | Fasulo, II, Albert J., Ellicott City, MD, United States<br>Cammarata, Denise M., Owings Mills, MD, United States<br>Janson, Keith W., Ellicott City, MD, United States<br>Anderson, Samuel S., Glen Burnie, MD, United States<br>Cooper, Raymond R., Baltimore, MD, United States<br>Stehlik, Roy, Columbia, MD, United States |
| PATENT ASSIGNEE(S): | Westinghouse Electric Corporation, Pittsburgh, PA, United States (U.S. corporation) |

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5742639 | 19980421 |
| APPLICATION INFO.: | US 1994-322858 | 19941013 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1994-242400, filed on 13 May 1994, now abandoned | |
| DOCUMENT TYPE: | Utility | |
| PRIMARY EXAMINER: | Chin, Wellington | |
| ASSISTANT EXAMINER: | Tran, Congvan | |
| NUMBER OF CLAIMS: | 8 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 12 Drawing Figure(s); 12 Drawing Page(s) | |
| LINE COUNT: | 1326 | |

TI Mobile terminal apparatus and method for a satellite communication system

L14 ANSWER 4 OF 12 USPATFULL

| | |
|---|---|
| ACCESSION NUMBER: | 97:81906 USPATFULL |
| TITLE: | High performance error control coding in channel encoders and decoders |
| INVENTOR(S): | Ganesan, Kalyan, Germantown, MD, United States<br>Swaminathan, Kumar, Gathersberg, MD, United States<br>Gupta, Prabhat, Germantown, MD, United States<br>Kumar, P. Vijay, Santa Monica, CA, United States |
| PATENT ASSIGNEE(S): | Hughes Electronics, Los Angeles, CA, United States (U.S. corporation) |

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5666370 | 19970909 |
| APPLICATION INFO.: | US 1996-591127 | 19960125 (8) |

RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-119778, filed on 10 Sep 1993
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Elmore, Reba I.
ASSISTANT EXAMINER: Oakes, Brian C.
LEGAL REPRESENTATIVE: Whelan, John T.; Denson-Low, Wanda
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 806
TI High performance error control coding in channel encoders and decoders

L14 ANSWER 5 OF 12 USPATFULL
ACCESSION NUMBER: 97:30173 USPATFULL
TITLE: Method and apparatus for coherent communication reception in a spread-spectrum communication system
INVENTOR(S): Ling, Fuyun, Hoffman Estates, IL, United States
Sexton, Thomas A., Schaumburg, IL, United States
Bruckert, Gene, Arlington Heights, IL, United States
PATENT ASSIGNEE(S): Motorola, Inc., Schaumburg, IL, United States (U.S. corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5619524 | 19970408 |
| APPLICATION INFO.: | US 1995-396453 | 19950228 (8) |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-317501, filed on 4 Oct 1994
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Bocure, Tesfaldet
LEGAL REPRESENTATIVE: Sonnentag, Richard A.; Buford, Kevin A.
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 1251
TI Method and apparatus for coherent communication reception in a spread-spectrum communication system

L14 ANSWER 6 OF 12 USPATFULL
ACCESSION NUMBER: 96:99900 USPATFULL
TITLE: Multi-user communication system employing spread signatures
INVENTOR(S): Wornell, Gregory W., Wellesley, MA, United States
PATENT ASSIGNEE(S): Lucent Technologies Inc., Murray Hill, NJ, United States (U.S. corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5570351 | 19961029 |
| APPLICATION INFO.: | US 1994-321297 | 19941011 (8) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Olms, Douglas W.
ASSISTANT EXAMINER: Jung, Min
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 20
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 711
TI Multi-user communication system employing spread signatures

L14 ANSWER 7 OF 12 USPATFULL
ACCESSION NUMBER: 96:88244 USPATFULL

TITLE: Spatial diversity processing for underwater acoustic telemetry

INVENTOR(S): Catipovic, Josko A., 20 McGregor Rd. PO Box 705, Woods Hole, MA, United States 02543
Freitag, Lee E., 86 Water St., Woods Hole, MA, United States 02543(4)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5559757 | 19960924 |
| APPLICATION INFO.: | US 1994-195965 | 19940209 (8) |

RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-41326, filed on 31 Mar 1993, now abandoned which is a continuation of Ser. No. US 1991-709574, filed on 18 Dec 1991, now abandoned
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Pihulic, Daniel T.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 1402
TI Spatial diversity processing for underwater acoustic telemetry

L14 ANSWER 8 OF 12 USPATFULL
ACCESSION NUMBER: 96:8251 USPATFULL
TITLE: Wireless LAN
INVENTOR(S): O'Sullivan, John D., Ermington, Australia
Daniels, Graham R., Willoughby, Australia
Percival, Terence M. P., Lane Cove, Australia
Ostry, Diethelm I., Petersham, Australia
Deane, John F., Eastwood, Australia
PATENT ASSIGNEE(S): Commonwealth Scientific and Industrial Research Organization, Australia (non-U.S. corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5487069 | 19960123 |
| APPLICATION INFO.: | US 1993-157375 | 19931123 (8) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | AU 1992-6069 | 19921127 |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Safourek, Benedict V.
LEGAL REPRESENTATIVE: Frommer, William S.
NUMBER OF CLAIMS: 72
EXEMPLARY CLAIM: 49
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 8 Drawing Page(s)
LINE COUNT: 1090
TI Wireless LAN

L14 ANSWER 9 OF 12 USPATFULL
ACCESSION NUMBER: 94:29448 USPATFULL
TITLE: Multidimensional trellis-coded modulation for fading channels
INVENTOR(S): Wei, Lee-Fang, Lincroft, NJ, United States
PATENT ASSIGNEE(S): AT&T Bell Laboratories, Murray Hill, NJ, United States (U.S. corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5301209 | 19940405 |
| APPLICATION INFO.: | US 1991-773828 | 19911009 (7) |

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Chin, Stephen
ASSISTANT EXAMINER: Webster, Bryan
LEGAL REPRESENTATIVE: Opalach, Joseph J.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 492
TI Multidimensional trellis-coded modulation for fading channels

L14 ANSWER 10 OF 12 USPATFULL
ACCESSION NUMBER: 93:29780 USPATFULL
TITLE: Noise-immune space diversity receiver
INVENTOR(S): Okanoue, Kazuhiro, Tokyo, Japan
PATENT ASSIGNEE(S): NEC Corporation, Tokyo, Japan (non-U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 5202903 | 19930413 | |
| APPLICATION INFO.: | US 1991-678497 | 19910401 | (7) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | JP 1990-83478 | 19900330 |
| | JP 1990-83479 | 19900330 |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Chin, Stephen
LEGAL REPRESENTATIVE: Sughrue, Mion, Zinn, Macpeak & Seas
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 526
TI Noise-immune space diversity receiver

L14 ANSWER 11 OF 12 USPATFULL
ACCESSION NUMBER: 91:102604 USPATFULL
TITLE: Method for protecting multi-pulse coders from fading and random pattern bit errors
INVENTOR(S): Zinser, Richard L., Schenectady, NY, United States
Koch, Steven R., Waterford, NY, United States
Toy, Raymond L., Latham, NY, United States
PATENT ASSIGNEE(S): General Electric Company, Schenectady, NY, United States (U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 5073940 | 19911217 | |
| APPLICATION INFO.: | US 1989-441022 | 19891124 | (7) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Kemeny, Emanuel S.
LEGAL REPRESENTATIVE: Zale, Lawrence P.; Davis, Jr., James C.; Snyder, Marvin
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 566
TI Method for protecting multi-pulse coders from fading and random pattern bit errors

L14 ANSWER 12 OF 12 USPATFULL
ACCESSION NUMBER: 91:47342 USPATFULL
TITLE: Trellis coded multilevel DPSK system with doppler correction for mobile satellite channels
INVENTOR(S): Divsalar, Dariush, Pacific Palisades, CA, United States
Simon, Marvin K., La Canada, CA, United States

PATENT ASSIGNEE(S): California Institute of Technology, Pasadena, CA, United States (U.S. corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5023889 | 19910611 |
| APPLICATION INFO.: | US 1988-200742 | 19880531 (7) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Safourek, Benedict V.
LEGAL REPRESENTATIVE: Benman, Jr., William J.
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 632
TI Trellis coded multilevel DPSK system with doppler correction for mobile satellite channels

=> d l17 ibib ti

L17 ANSWER 1 OF 1 USPATFULL
ACCESSION NUMBER: 2000:41878 USPATFULL
TITLE: Method and device for quantizing the input to soft decoders
INVENTOR(S): Yellin, Daniel, Karmei Yosef, Israel
PATENT ASSIGNEE(S): DSPC Israel Ltd., Givat Shmuel, Israel (non-U.S. corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 6047035 | 20000404 |
| APPLICATION INFO.: | US 1998-103683 | 19980615 (9) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Chin, Stephen
ASSISTANT EXAMINER: Maddox, Michael W.
LEGAL REPRESENTATIVE: Darby & Darby
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 696
TI Method and device for quantizing the input to soft decoders

=> d l16 ibib ti 1-16

L16 ANSWER 1 OF 16 USPATFULL
ACCESSION NUMBER: 2000:41878 USPATFULL
TITLE: Method and device for quantizing the input to soft decoders
INVENTOR(S): Yellin, Daniel, Karmei Yosef, Israel
PATENT ASSIGNEE(S): DSPC Israel Ltd., Givat Shmuel, Israel (non-U.S. corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 6047035 | 20000404 |
| APPLICATION INFO.: | US 1998-103683 | 19980615 (9) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Chin, Stephen
ASSISTANT EXAMINER: Maddox, Michael W.
LEGAL REPRESENTATIVE: Darby & Darby
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 10 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 896
TI Method and device for quantizing the input to soft decoders

L16 ANSWER 2 OF 16 USPATFULL
ACCESSION NUMBER: 1999:167680 USPATFULL
TITLE: Multiple modulation format television signal receiver system
INVENTOR(S): Strolle, Christopher H., Montgomery, PA, United States
Jaffe, Steven T., Monmouth, NJ, United States
PATENT ASSIGNEE(S): Sarnoff Corporation, Princeton, NJ, United States (U.S.
corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 6005640 | 19991221 |
| APPLICATION INFO.: | US 1996-721867 | 19960927 (8) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Faile, Andrew I.
ASSISTANT EXAMINER: Le, Uyen
LEGAL REPRESENTATIVE: Burke, William J.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 962
TI Multiple modulation format television signal receiver system

L16 ANSWER 3 OF 16 USPATFULL
ACCESSION NUMBER: 1999:82695 USPATFULL
TITLE: Device, system, and method for modem communication utilizing two-step mapping
INVENTOR(S): Long, Guozhu, Raleigh, NC, United States
PATENT ASSIGNEE(S): Cirrus Logic, Inc., Fremont, CA, United States (U.S. corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5926505 | 19990720 |
| APPLICATION INFO.: | US 1996-731500 | 19961016 (8) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Ghebretinsae, Temesghen
LEGAL REPRESENTATIVE: Violette, J. P.; Sabath, Robert P.
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 733
TI Device, system, and method for modem communication utilizing two-step mapping

L16 ANSWER 4 OF 16 USPATFULL
ACCESSION NUMBER: 1998:155389 USPATFULL
TITLE: Receiver decoder circuitry, and associated method, for decoding an encoded signal
INVENTOR(S): Khayrallah, Ali S., Apex, NC, United States
PATENT ASSIGNEE(S): Ericsson, Inc., Research Triangle Park, NC, United States (U.S. corporation)

| | NUMBER | DATE |
|---|---|---|
| PATENT INFORMATION: | US 5848106 | 19981208 |
| APPLICATION INFO.: | US 1996-767542 | 19961216 (8) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Chin, Stephen
ASSISTANT EXAMINER: Deppe, Betsy L.

LEGAL REPRESENTATIVE: Jenkens & Gilchrist, a Professional Corporation
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 630
TI Receiver decoder circuitry, and associated method, for decoding an encoded signal

L16 ANSWER 5 OF 16 USPATFULL
ACCESSION NUMBER: 1998:43225 USPATFULL
TITLE: Optimized simultaneous audio and data transmission using QADM with phase randomization
INVENTOR(S): Olafsson, Sverrir, Seltjarnarnes, Iceland
PATENT ASSIGNEE(S): Rockwell International Corporation, Newport Beach, CA, United States (U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 5742679 | 19980421 | |
| APPLICATION INFO.: | US 1996-699269 | 19960819 | (8) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Cain, David C.
LEGAL REPRESENTATIVE: Cray, William C.; Yu, Philip K.
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 397
TI Optimized simultaneous audio and data transmission using QADM with phase
randomization

L16 ANSWER 6 OF 16 USPATFULL
ACCESSION NUMBER: 1998:43192 USPATFULL
TITLE: Quantizing and decoding of phase-amplitude modulated signals in hexagonal code
INVENTOR(S): Reeves, Philip J., Burlington, NJ, United States
Wougk, Harald A., Franklin Park, NJ, United States
PATENT ASSIGNEE(S): Mikros Systems Corporation, Princeton, NJ, United States (U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 5742643 | 19980421 | |
| APPLICATION INFO.: | US 1994-344344 | 19941122 | (8) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Chin, Stephen
ASSISTANT EXAMINER: Vo, Don
LEGAL REPRESENTATIVE: Brumbaugh, Graves, Donohue & Raymond
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 386
TI Quantizing and decoding of phase-amplitude modulated signals in hexagonal code

L16 ANSWER 7 OF 16 USPATFULL
ACCESSION NUMBER: 95:53083 USPATFULL
TITLE: Television transmission system using spread spectrum and orthogonal frequency-division multiplex
INVENTOR(S): Schreiber, William F., Cambridge, MA, United States
Polley, Michael O., Belmont, MA, United States
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, Cambridge, MA, United States (U.S. corporation)

| | NUMBER | DATE |
|---|---|---|

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 5425050 | 19950613 | |
| APPLICATION INFO.: | US 1993-149264 | 19931109 | (8) |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1992-965227, filed on 23 Oct 1992, now patented, Pat. No. US 5311543
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Cain, David C.
LEGAL REPRESENTATIVE: Fish & Richardson
NUMBER OF CLAIMS: 53
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 1346
TI Television transmission system using spread spectrum and orthogonal frequency-division multiplex

L16 ANSWER 8 OF 16 USPATFULL
ACCESSION NUMBER: 95:48481 USPATFULL
TITLE: Decoding using a linear metric and interference estimation
INVENTOR(S): Juntti, Juhani, Puuppola, Finland
PATENT ASSIGNEE(S): Nokia Mobile Phones Ltd., Salo, Finland (non-U.S. corporation).

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 5420889 | 19950530 | |
| APPLICATION INFO.: | US 1993-109324 | 19930819 | (8) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | FI 1992-3739 | 19920820 |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Chin, Stephen
ASSISTANT EXAMINER: Vo, Don N.
LEGAL REPRESENTATIVE: Perman & Green
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 429
TI Decoding using a linear metric and interference estimation

L16 ANSWER 9 OF 16 USPATFULL
ACCESSION NUMBER: 94:40860 USPATFULL
TITLE: Television transmission system using two stages of spead-spectrum processing
INVENTOR(S): Schreiber, William F., No. 8 Ellery Sq., Cambridge, MA,
United States 02138

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 5311543 | 19940510 | |
| APPLICATION INFO.: | US 1992-965227 | 19921023 | (7) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Cain, David C.
LEGAL REPRESENTATIVE: Fish & Richardson
NUMBER OF CLAIMS: 31
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 750
TI Television transmission system using two stages of spead-spectrum processing

L16 ANSWER 10 OF 16 USPATFULL
ACCESSION NUMBER: 93:7578 USPATFULL

TITLE: Receiver for recovering data in a forward and reverse direction in time

INVENTOR(S): Kazecki, Henry L., Arlington Heights, IL, United States

Baker, James C., Hanover Park, IL, United States

PATENT ASSIGNEE(S): Motorola, Inc., Schaumburg, IL, United States (U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 5182749 | 19930126 | |
| APPLICATION INFO.: | US 1990-633556 | 19901221 | (7) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Olms, Douglas W.
ASSISTANT EXAMINER: Hom, Shick
LEGAL REPRESENTATIVE: Kaschke, Kevin D.; Jenski, Raymond A.; Fisher, John A.
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 520
TI Receiver for recovering data in a forward and reverse direction in time

L16 ANSWER 11 OF 16 USPATFULL
ACCESSION NUMBER: 89:57012 USPATFULL
TITLE: Phase jitter compensation arrangement using an adaptive IIR filter

INVENTOR(S): Cupo, Robert L., Eatontown, NJ, United States
PATENT ASSIGNEE(S): American Telephone and Telegraph Company, New York, NY, United States (U.S. corporation)
AT&T Information Systems Inc., Morristown, NJ, United States (U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 4847864 | 19890711 | |
| APPLICATION INFO.: | US 1988-209801 | 19880622 | (7) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Safourek, Benedict V.
LEGAL REPRESENTATIVE: Luludis, Frederick B.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 569
TI Phase jitter compensation arrangement using an adaptive IIR filter

L16 ANSWER 12 OF 16 USPATFULL
ACCESSION NUMBER: 86:72120 USPATFULL
TITLE: Data transmission with block coding
INVENTOR(S): Longstaff, Fred M., Islington, Canada
Lang, Gordon R., Bolton, Canada
PATENT ASSIGNEE(S): Motorola Canada Limited, North York, Canada (non-U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 4630288 | 19861216 | |
| APPLICATION INFO.: | US 1984-584235 | 19840227 | (6) |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1983-563976, filed on 21 Dec 1983
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Griffin, Robert L.
ASSISTANT EXAMINER: Glenny, Raymond C.
LEGAL REPRESENTATIVE: Westell & Hanley

NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1720
TI Data transmission with block coding

L16 ANSWER 13 OF 16 USPATFULL
ACCESSION NUMBER: 85:46573 USPATFULL
TITLE: Method and apparatus for coding a binary signal
INVENTOR(S): Thapar, Hemant K., Marlboro, NJ, United States
PATENT ASSIGNEE(S): AT&T Information Systems, Holmdel, NJ, United States (U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 4534040 | 19850806 | |
| APPLICATION INFO.: | US 1983-455502 | 19830104 | (6) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Krass, Errol A.
ASSISTANT EXAMINER: Black, Thomas G.
LEGAL REPRESENTATIVE: Freedman, Barry H.; Slusky, Ronald D.
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 571
TI Method and apparatus for coding a binary signal

L16 ANSWER 14 OF 16 USPATFULL
ACCESSION NUMBER: 80:64851 USPATFULL
TITLE: Hard limiting acquisition technique for PSK carrier detector
INVENTOR(S): Snell, James L., Palm Bay, FL, United States
Cobb, Raymond F., Melbourne Beach, FL, United States
PATENT ASSIGNEE(S): Harris Corporation, Cleveland, OH, United States (U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 4241454 | 19801223 | |
| APPLICATION INFO.: | US 1978-882068 | 19780228 | (5) |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Buczinski, Stephen C.
LEGAL REPRESENTATIVE: Craig & Antonelli
NUMBER OF CLAIMS: 16
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 420
TI Hard limiting acquisition technique for PSK carrier detector

L16 ANSWER 15 OF 16 USPATFULL
ACCESSION NUMBER: 75:51518 USPATFULL
TITLE: Signal processing system
INVENTOR(S): Bussgang, Julian J., Lexington, MA, United States
Gish, Herbert, Lexington, MA, United States
PATENT ASSIGNEE(S): Signatron, Inc., Lexington, MA, United States (U.S. corporation)

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 3909721 | 19750930 | |
| APPLICATION INFO.: | US 1974-446782 | 19740228 | (5) |

RELATED APPLN. INFO.: Continuation of Ser. No. US 1972-222193, filed on 31 Jan 1972, now abandoned
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Safourek, Benedict V.

LEGAL REPRESENTATIVE: O'Connell, Robert F.
NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM: 14
NUMBER OF DRAWINGS: 18 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 1275
TI Signal processing system

L16 ANSWER 16 OF 16 USPATFULL
ACCESSION NUMBER: 71:9061 USPATFULL
TITLE: BAND-COMPRESSED SIGNAL TRANSMISSION SYSTEM
INVENTOR(S): Shimamura, Tadao, Tokyo, Japan
PATENT ASSIGNEE(S): Nippon Electric Company, Limited, Tokyo, Japan

| | NUMBER | DATE | |
|---|---|---|---|
| PATENT INFORMATION: | US 3573364 | 19710406 | |
| APPLICATION INFO.: | US 1969-847632 | 19690805 | (4) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | JP 1968-55807 | 19680808 |

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Griffin, Robert L.
ASSISTANT EXAMINER: Eckert, Jr., Richard K.
LEGAL REPRESENTATIVE: Marn and Jangarathis
NUMBER OF CLAIMS: 15
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 540
TI BAND-COMPRESSED SIGNAL TRANSMISSION SYSTEM